

OIEP

## RAW SEQUENCE LISTING

DATE: 10/04/2001

PATENT APPLICATION: US/09/883,727A

TIME: 11:23:57

Input Set : A:\00-33.SEQ.TXT

Output Set: N:\CRF3\10042001\I883727A.raw

4 <110> APPLICANT: West, Robert R.  
5 Sheppard, Paul O.  
6 Fox, Brian  
8 <120> TITLE OF INVENTION: Peptide and Polypeptide Inhibitors of  
9 Complement C1s  
11 <130> FILE REFERENCE: 00-33  
C--> 13 <140> CURRENT APPLICATION NUMBER: US/09/883,727A  
C--> 13 <141> CURRENT FILING DATE: 2001-09-18  
13 <160> NUMBER OF SEQ ID NOS: 140  
15 <170> SOFTWARE: FastSEQ for Windows Version 3.0  
17 <210> SEQ ID NO: 1  
18 <211> LENGTH: 122  
19 <212> TYPE: PRT  
20 <213> ORGANISM: Haementaria ghilianii  
22 <400> SEQUENCE: 1  
23 Ala Lys Lys Lys Leu Pro Lys Cys Gln Lys Gln Glu Asp Cys Gly Ser  
24 1 5 10 15  
25 Trp Asp Leu Lys Cys Asn Asn Val Thr Lys Lys Cys Glu Cys Arg Asn  
26 20 25 30  
27 Gln Val Cys Gly Arg Gly Cys Pro Lys Glu Arg Tyr Gln Arg Asp Lys  
28 35 40 45  
29 Tyr Gly Cys Arg Lys Cys Leu Cys Lys Gly Cys Asp Gly Phe Lys Cys  
30 50 55 60  
31 Arg Leu Gly Cys Thr Tyr Gly Phe Lys Thr Asp Lys Lys Gly Cys Glu  
32 65 70 75 80  
33 Ala Phe Cys Thr Cys Asn Thr Lys Glu Thr Ala Cys Val Asn Ile Trp  
34 85 90 95  
35 Cys Thr Asp Pro Tyr Lys Cys Asn Pro Glu Ser Gly Arg Cys Glu Asp  
36 100 105 110  
37 Pro Asn Glu Glu Tyr Glu Tyr Asp Tyr Glu  
38 115 120  
40 <210> SEQ ID NO: 2  
41 <211> LENGTH: 10  
42 <212> TYPE: PRT  
43 <213> ORGANISM: Artificial Sequence  
45 <220> FEATURE:  
46 <223> OTHER INFORMATION: C1s exosite binding moiety  
48 <400> SEQUENCE: 2  
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50 1 5 10  
52 <210> SEQ ID NO: 3  
53 <211> LENGTH: 10  
54 <212> TYPE: PRT  
55 <213> ORGANISM: Artificial Sequence  
57 <220> FEATURE:  
58 <223> OTHER INFORMATION: C1s exosite binding moiety  
60 <221> NAME/KEY: MUTAGEN

ENTERED

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61 <222> LOCATION: (5)...(5)  
62 <223> OTHER INFORMATION: Xaa = Phe-(p-CH<sub>2</sub>)SO<sub>3</sub>H  
64 <400> SEQUENCE: 3  
W--> 65 Pro Asn Glu Glu Xaa Glu Tyr Asp Tyr Glu  
66 1 5 10  
68 <210> SEQ ID NO: 4  
69 <211> LENGTH: 10  
70 <212> TYPE: PRT  
71 <213> ORGANISM: Artificial Sequence  
73 <220> FEATURE:  
74 <223> OTHER INFORMATION: C1s exosite binding moiety  
76 <221> NAME/KEY: MUTAGEN  
77 <222> LOCATION: (7)...(7)  
78 <223> OTHER INFORMATION: Xaa = Phe-(p-CH<sub>2</sub>)SO<sub>3</sub>H  
80 <400> SEQUENCE: 4  
W--> 81 Pro Asn Glu Glu Tyr Glu Xaa Asp Tyr Glu  
82 1 5 10  
84 <210> SEQ ID NO: 5  
85 <211> LENGTH: 10  
86 <212> TYPE: PRT  
87 <213> ORGANISM: Artificial Sequence  
89 <220> FEATURE:  
90 <223> OTHER INFORMATION: C1s exosite binding moiety  
92 <221> NAME/KEY: MUTAGEN  
93 <222> LOCATION: (9)...(9)  
94 <223> OTHER INFORMATION: Xaa = Phe-(p-CH<sub>2</sub>)SO<sub>3</sub>H  
96 <400> SEQUENCE: 5  
W--> 97 Pro Asn Glu Glu Tyr Glu Tyr Asp Xaa Glu  
98 1 5 10  
100 <210> SEQ ID NO: 6  
101 <211> LENGTH: 10  
102 <212> TYPE: PRT  
103 <213> ORGANISM: Artificial Sequence  
105 <220> FEATURE:  
106 <223> OTHER INFORMATION: C1s exosite binding moiety  
108 <221> NAME/KEY: MUTAGEN  
109 <222> LOCATION: (5)...(5)  
110 <223> OTHER INFORMATION: Xaa = Phe-(p-CH<sub>2</sub>)SO<sub>3</sub>H  
112 <221> NAME/KEY: MUTAGEN  
113 <222> LOCATION: (7)...(7)  
114 <223> OTHER INFORMATION: Xaa = Phe-(p-CH<sub>2</sub>)SO<sub>3</sub>H  
116 <400> SEQUENCE: 6  
W--> 117 Pro Asn Glu Glu Xaa Glu Xaa Asp Tyr Glu  
118 1 5 10  
120 <210> SEQ ID NO: 7  
121 <211> LENGTH: 10  
122 <212> TYPE: PRT  
123 <213> ORGANISM: Artificial Sequence  
125 <220> FEATURE:

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126 <223> OTHER INFORMATION: C1s exosite binding moiety ✓
128 <221> NAME/KEY: MUTAGEN
129 <222> LOCATION: (5)...(5)
130 <223> OTHER INFORMATION: Xaa = Phe-(p-CH2)SO3H
132 <221> NAME/KEY: MUTAGEN
133 <222> LOCATION: (9)...(9)
134 <223> OTHER INFORMATION: Xaa = Phe-(p-CH2)SO3H
136 <400> SEQUENCE: 7
W--> 137 Pro Asn Glu Glu Xaa Glu Tyr Asp Xaa Glu
      138 1 5 10
140 <210> SEQ ID NO: 8
141 <211> LENGTH: 10
142 <212> TYPE: PRT
143 <213> ORGANISM: Artificial Sequence
145 <220> FEATURE:
146 <223> OTHER INFORMATION: C1s exosite binding moiety ✓
148 <221> NAME/KEY: MUTAGEN
149 <222> LOCATION: (7)...(7)
150 <223> OTHER INFORMATION: Xaa = Phe-(p-CH2)SO3H
152 <221> NAME/KEY: MUTAGEN
153 <222> LOCATION: (9)...(9)
154 <223> OTHER INFORMATION: Xaa = Phe-(p-CH2)SO3H
156 <400> SEQUENCE: 8
W--> 157 Pro Asn Glu Glu Tyr Glu Xaa Asp Xaa Glu
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162 <212> TYPE: PRT
163 <213> ORGANISM: Artificial Sequence
165 <220> FEATURE:
166 <223> OTHER INFORMATION: C1s exosite binding moiety ✓
168 <221> NAME/KEY: MUTAGEN
169 <222> LOCATION: (5)...(5)
170 <223> OTHER INFORMATION: Xaa = Phe-(p-CH2)SO3H
172 <221> NAME/KEY: MUTAGEN
173 <222> LOCATION: (7)...(0) ✓
174 <223> OTHER INFORMATION: Xaa = Phe-(p-CH2)SO3H
176 <221> NAME/KEY: MUTAGEN
177 <222> LOCATION: (9)...(9)
178 <223> OTHER INFORMATION: Xaa = Phe-(p-CH2)SO3H
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185 <211> LENGTH: 10
186 <212> TYPE: PRT
187 <213> ORGANISM: Artificial Sequence
189 <220> FEATURE:
190 <223> OTHER INFORMATION: C1s exosite binding moiety

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192 <221> NAME/KEY: MUTAGEN  
193 <222> LOCATION: (5)...(5)  
194 <223> OTHER INFORMATION: Xaa = sulfated tyrosine  
196 <400> SEQUENCE: 10  
W--> 197 Pro Asn Glu Glu Xaa Glu Tyr Asp Tyr Glu  
198 1 5 10  
200 <210> SEQ ID NO: 11  
201 <211> LENGTH: 10  
202 <212> TYPE: PRT  
203 <213> ORGANISM: Artificial Sequence  
205 <220> FEATURE:  
206 <223> OTHER INFORMATION: C1s exosite binding moiety  
208 <221> NAME/KEY: MUTAGEN  
209 <222> LOCATION: (7)...(7)  
210 <223> OTHER INFORMATION: Xaa = sulfated tyrosine  
212 <400> SEQUENCE: 11  
W--> 213 Pro Asn Glu Glu Tyr Glu Xaa Asp Tyr Glu  
214 1 5 10  
216 <210> SEQ ID NO: 12  
217 <211> LENGTH: 10  
218 <212> TYPE: PRT  
219 <213> ORGANISM: Artificial Sequence  
221 <220> FEATURE:  
222 <223> OTHER INFORMATION: C1s exosite binding moiety  
224 <221> NAME/KEY: MUTAGEN  
225 <222> LOCATION: (9)...(9)  
226 <223> OTHER INFORMATION: Xaa = sulfated tyrosine  
228 <400> SEQUENCE: 12  
W--> 229 Pro Asn Glu Glu Tyr Glu Tyr Asp Xaa Glu  
230 1 5 10  
232 <210> SEQ ID NO: 13  
233 <211> LENGTH: 10  
234 <212> TYPE: PRT  
235 <213> ORGANISM: Artificial Sequence  
237 <220> FEATURE:  
238 <223> OTHER INFORMATION: C1s exosite binding moiety  
240 <221> NAME/KEY: MUTAGEN  
241 <222> LOCATION: (5)...(5)  
242 <223> OTHER INFORMATION: Xaa = sulfated tyrosine  
244 <221> NAME/KEY: MUTAGEN  
245 <222> LOCATION: (7)...(7)  
246 <223> OTHER INFORMATION: Xaa = sulfated tyrosine  
248 <400> SEQUENCE: 13  
W--> 249 Pro Asn Glu Glu Xaa Glu Asp Tyr Glu  
250 1 5 10  
252 <210> SEQ ID NO: 14  
253 <211> LENGTH: 10  
254 <212> TYPE: PRT  
255 <213> ORGANISM: Artificial Sequence

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257 <220> FEATURE:
258 <223> OTHER INFORMATION: C1s exosite binding moiety
260 <221> NAME/KEY: MUTAGEN
261 <222> LOCATION: (5)...(5)
262 <223> OTHER INFORMATION: Xaa = sulfated tyrosine
264 <221> NAME/KEY: MUTAGEN
265 <222> LOCATION: (9)...(9)
266 <223> OTHER INFORMATION: Xaa = sulfated tyrosine
268 <400> SEQUENCE: 14
W--> 269  Pro Asn Glu Glu Xaa Glu Tyr Asp Xaa Glu
      270    1          5          10
272 <210> SEQ ID NO: 15
273 <211> LENGTH: 10
274 <212> TYPE: PRT
275 <213> ORGANISM: Artificial Sequence
277 <220> FEATURE:
278 <223> OTHER INFORMATION: C1s exosite binding moiety ✓
280 <221> NAME/KEY: MUTAGEN
281 <222> LOCATION: (7)...(7)
282 <223> OTHER INFORMATION: Xaa = sulfated tyrosine
284 <221> NAME/KEY: MUTAGEN
285 <222> LOCATION: (9)...(9)
286 <223> OTHER INFORMATION: Xaa = sulfated tyrosine ✓
288 <400> SEQUENCE: 15
W--> 289  Pro Asn Glu Glu Tyr Glu Xaa Asp Xaa Glu
      290    1          5          10
292 <210> SEQ ID NO: 16
293 <211> LENGTH: 10
294 <212> TYPE: PRT
295 <213> ORGANISM: Artificial Sequence
297 <220> FEATURE:
298 <223> OTHER INFORMATION: C1s exosite binding moiety ✓
300 <221> NAME/KEY: MUTAGEN
301 <222> LOCATION: (5)...(5)
302 <223> OTHER INFORMATION: Xaa = sulfated tyrosine
304 <221> NAME/KEY: MUTAGEN
305 <222> LOCATION: (7)...(7)
306 <223> OTHER INFORMATION: Xaa = sulfated tyrosine
308 <221> NAME/KEY: MUTAGEN
309 <222> LOCATION: (9)...(9)
310 <223> OTHER INFORMATION: Xaa = sulfated tyrosine ✓
312 <400> SEQUENCE: 16
W--> 313  Pro Asn Glu Glu Xaa Glu Xaa Asp Xaa Glu
      314    1          5          10
316 <210> SEQ ID NO: 17
317 <211> LENGTH: 10
318 <212> TYPE: PRT
319 <213> ORGANISM: Artificial Sequence
321 <220> FEATURE:

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## VERIFICATION SUMMARY

PATENT APPLICATION: US/09/883,727A

DATE: 10/04/2001

TIME: 11:23:58

Input Set : A:\00-33.SEQ.TXT

Output Set: N:\CRF3\10042001\I883727A.raw

L:13 M:270 C: Current Application Number differs, Replaced Current Application No  
L:13 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
L:65 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3  
L:81 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4  
L:97 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5  
L:117 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6  
L:137 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7  
L:157 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8  
L:181 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9  
L:197 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10  
L:213 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11  
L:229 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12  
L:249 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13  
L:269 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14  
L:289 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15  
L:313 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16  
L:333 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17  
L:353 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18  
L:373 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19  
L:393 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20  
L:413 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21  
L:433 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22  
L:457 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23  
L:481 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:24  
L:505 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25  
L:529 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26  
L:553 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27  
L:569 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:28  
L:585 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:29  
L:601 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:30  
L:621 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:31  
L:641 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:32  
L:661 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:33  
L:685 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:34  
L:701 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:35  
L:717 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:36  
L:733 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:37  
L:753 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:38  
L:773 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:39  
L:793 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:40  
L:817 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:41  
L:837 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:42  
L:857 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:43  
L:877 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:44  
L:897 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:45  
L:917 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:46  
L:937 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:47  
L:961 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:48

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L:985 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:49  
L:1009 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:50  
L:1033 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:51  
L:1057 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:52